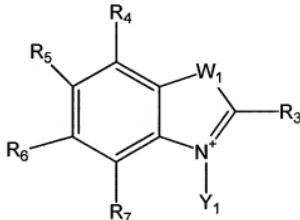


## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior listings of claims in the application:

### 1. (PREVIOUSLY PRESENTED) A compound of formula 1



Formula 1

wherein

R<sub>3</sub> is C<sub>1</sub>-C<sub>10</sub> alkyl;

R<sub>4</sub> to R<sub>7</sub> are independently selected from the group consisting of -H, C<sub>1</sub>-C<sub>10</sub> alkoxyl, C<sub>1</sub>-C<sub>10</sub> polyalkoxyalkyl, C<sub>1</sub>-C<sub>20</sub> polyhydroxyalkyl, C<sub>5</sub>-C<sub>20</sub> polyhydroxyaryl, saccharides, amino, cyano, nitro, halogen, hydrophilic peptides, arylpolysulfonates, C<sub>1</sub>-C<sub>10</sub> alkyl, C<sub>1</sub>-C<sub>10</sub> aryl, -SO<sub>3</sub>T, -CO<sub>2</sub>T, -OH, -(CH<sub>2</sub>)<sub>a</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>OSO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>NHSO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>CO<sub>2</sub>(CH<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>OCO(CH<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>CONH(CH<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>NHCO(CH<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>NHCONH(CH<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>PO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>a</sub>PO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>OPO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>a</sub>OPO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>NHPO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>a</sub>NHPO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>CO<sub>2</sub>(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>a</sub>CO<sub>2</sub>(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>OCO(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>CONH(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>a</sub>CONH(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>NHCO(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>NHCONH(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>a</sub>NHCONH(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>NHCSNH(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>a</sub>NHCSNH(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>OCONH(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>a</sub>OCONH(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>CH<sub>2</sub>-O-CH<sub>2</sub>-CO<sub>2</sub>T, -(CH<sub>2</sub>)<sub>a</sub>CH<sub>2</sub>-N<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>CH<sub>2</sub>-O-CH<sub>2</sub>-g-CH<sub>2</sub>-NH<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>-N(R<sub>a</sub>)-(CH<sub>2</sub>)<sub>a</sub>CO<sub>2</sub>T, and -(CH<sub>2</sub>)<sub>a</sub>N(R<sub>a</sub>)-CH<sub>2</sub>-(CH<sub>2</sub>-O-CH<sub>2</sub>)<sub>k</sub>-CH<sub>2</sub>-CO<sub>2</sub>T;

Y<sub>1</sub> is selected from the group consisting of hydrophilic peptides, arylpolysulfonates, -(CH<sub>2</sub>)<sub>a</sub>OSO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>NHSO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>CO<sub>2</sub>(CH<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>OCO(CH<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>CONH(CH<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>NHCO(CH<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>NHCONH(CH<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>NHCSNH(CH<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>OCONH(CH<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>PO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>a</sub>PO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>CH<sub>2</sub>-O-CH<sub>2</sub>-CO<sub>2</sub>T, -(CH<sub>2</sub>)<sub>a</sub>CH<sub>2</sub>-N<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>CH<sub>2</sub>-O-CH<sub>2</sub>-g-CH<sub>2</sub>-NH<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>-N(R<sub>a</sub>)-(CH<sub>2</sub>)<sub>a</sub>CO<sub>2</sub>T, and -(CH<sub>2</sub>)<sub>a</sub>CONH(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>a</sub>CONH(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>NHCO(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>HT,

$-(CH_2)_aNHCO(CH_2)_bPO_3T_2$ ,  $-(CH_2)_aNHCONH(CH_2)_bPO_3HT$ ,  $-(CH_2)_aNHCONH(CH_2)_bPO_3T_2$ ,  
 $-(CH_2)_aNHCSNH(CH_2)_bPO_3HT$ ,  $-(CH_2)_aNHCSNH(CH_2)_bPO_3T_2$ ,  $-(CH_2)_aOCONH(CH_2)_bPO_3HT$ ,  
 $-(CH_2)_aOCONH(CH_2)_bPO_3T_2$ ;

$W_1$  is  $-CR_cR_d$ ;

a, b, d, f, h, i, and j independently vary from 1-10;

c, e, g, and k independently vary from 1-100;

$R_a$ ,  $R_b$ ,  $R_c$ , and  $R_d$  are defined in the same manner as  $Y_1$ ; and

T is either H or a negative charge.

2-16 (CANCELED)

17. (PREVIOUSLY PRESENTED) The compound of claim 1 wherein  $R_3$  is  $C_1$  alkyl.

18. (CANCELED)

19. (PREVIOUSLY PRESENTED) The compound of claim 17 wherein each of  $R_4$  to  $R_7$  is independently -H or  $-SO_3T$ .

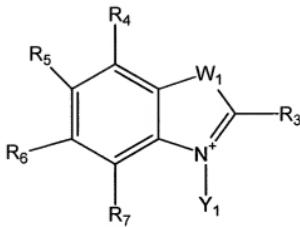
20-22. (CANCELED)

23. (PREVIOUSLY PRESENTED) The compound of claim 1 wherein each of  $R_4$  to  $R_7$  is independently -H or  $-SO_3T$ .

24-26. (CANCELED)

27. (CURRENTLY AMENDED) A method for performing a diagnostic or therapeutic procedure which comprises

administering to an individual an effective amount of a compound of formula 1



Formula 1

wherein

R<sub>3</sub> is C<sub>1</sub>-C<sub>10</sub> alkyl;

R<sub>4</sub> to R<sub>7</sub> are independently selected from the group consisting of -H, C1-C10 alkoxy, C1-C10 polyalkoxyalkyl, C1-C20 polyhydroxyalkyl, C5-C20 polyhydroxyaryl, saccharides, amino, cyano, nitro, halogen, hydrophilic peptides, arylpolysulfonates, C1-C10 alkyl, C1-C10 aryl, -SO<sub>3</sub>T, -CO<sub>2</sub>T, -OH, -(CH<sub>2</sub>)<sub>a</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>OSO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>NHSO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>CO<sub>2</sub>(CH<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>OCO(CH<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>CONH(CH<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>NHCO(CH<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>ONCONH(CH<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>PO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>a</sub>PO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>OPO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>a</sub>OPO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>NHPO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>a</sub>NHPO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>CO<sub>2</sub>(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>a</sub>CO<sub>2</sub>(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>OCO(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>CONH(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>a</sub>CONH(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>NHCO(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>NHCO(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>a</sub>NHCONH(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>NHCONH(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>a</sub>NHCSNH(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>a</sub>NHCSNH(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>OCONH(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>a</sub>OCONH(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>T<sub>2</sub>, -CH<sub>2</sub>(CH<sub>2</sub>-O-CH<sub>2</sub>)<sub>c</sub>CH<sub>2</sub>-OH, -(CH<sub>2</sub>)<sub>d</sub>-CO<sub>2</sub>T, -CH<sub>2</sub>-(CH<sub>2</sub>-O-CH<sub>2</sub>)<sub>e</sub>CH<sub>2</sub>-CO<sub>2</sub>T, -(CH<sub>2</sub>)<sub>f</sub>NH<sub>2</sub>, -CH<sub>2</sub>-(CH<sub>2</sub>-O-CH<sub>2</sub>)<sub>g</sub>CH<sub>2</sub>-NH<sub>2</sub>, -(CH<sub>2</sub>)<sub>h</sub>-N(R<sub>8</sub>)-(CH<sub>2</sub>)<sub>i</sub>-CO<sub>2</sub>T, and -(CH<sub>2</sub>)<sub>j</sub>-N(R<sub>9</sub>)-CH<sub>2</sub>-(CH<sub>2</sub>-O-CH<sub>2</sub>)<sub>k</sub>CH<sub>2</sub>-CO<sub>2</sub>T;

Y<sub>1</sub> is selected from the group consisting of hydrophilic peptides, arylpolysulfonates, C1-C10 alkyl, -(CH<sub>2</sub>)<sub>a</sub>OSO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>NHSO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>CO<sub>2</sub>(CH<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>OCO(CH<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>CONH(CH<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>NHCO(CH<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>ONCONH(CH<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>PO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>a</sub>PO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>OPO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>a</sub>OPO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>NHPO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>a</sub>NHPO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>CO<sub>2</sub>(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>a</sub>CO<sub>2</sub>(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>OCO(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>a</sub>OCO(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>CONH(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>a</sub>CONH(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>NHCO(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>a</sub>NHCO(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>NHCSNH(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>a</sub>NHCSNH(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>OCONH(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>a</sub>OCONH(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>T<sub>2</sub>;

W<sub>1</sub> is -CR<sub>c</sub>R<sub>d</sub>;

a, b, d, f, h, i, and j independently vary from 1-10;  
c, e, g, and k independently vary from 1-100;  
R<sub>a</sub>, R<sub>b</sub>, R<sub>c</sub>, and R<sub>d</sub> are defined in the same manner as Y<sub>1</sub>; and  
T is either H or a negative charge; and  
performing the diagnostic or therapeutic procedure.

28. (PREVIOUSLY PRESENTED) The method of claim 27 wherein

R<sub>3</sub> is C<sub>1</sub>-C<sub>10</sub> alkyl;  
R<sub>4</sub> to R<sub>7</sub> are independently selected from the group consisting of C1-C5 alkoxy, C1-C5 polyalkoxyalkyl, C1-C10 polyhydroxyalkyl, C5-C20 polyhydroxyaryl, mono- and disaccharides, amino, nitro, hydrophilic peptides, arylpolysulfonates, C1-C10 aryl, -SO<sub>3</sub>T, -CO<sub>2</sub>T, -OH, -(CH<sub>2</sub>)<sub>a</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>OSO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>NHSO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>CO<sub>2</sub>(CH<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>OCO(CH<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T, -CH<sub>2</sub>(CH<sub>2</sub>-O-CH<sub>2</sub>)<sub>c</sub>-CH<sub>2</sub>-OH, -(CH<sub>2</sub>)<sub>d</sub>-CO<sub>2</sub>T, -CH<sub>2</sub>-(CH<sub>2</sub>-O-CH<sub>2</sub>)<sub>e</sub>-CH<sub>2</sub>-CO<sub>2</sub>T, -(CH<sub>2</sub>)<sub>f</sub>NH<sub>2</sub>, -CH<sub>2</sub>-(CH<sub>2</sub>-O-CH<sub>2</sub>)<sub>g</sub>-CH<sub>2</sub>-NH<sub>2</sub>, -(CH<sub>2</sub>)<sub>h</sub>-N(R<sub>8</sub>)-(CH<sub>2</sub>)<sub>i</sub>-CO<sub>2</sub>T, and -(CH<sub>2</sub>)<sub>j</sub>-N(R<sub>9</sub>)-CH<sub>2</sub>-(CH<sub>2</sub>-O-CH<sub>2</sub>)<sub>k</sub>-CH<sub>2</sub>-CO<sub>2</sub>T;  
Y<sub>1</sub> is selected from the group consisting of hydrophilic peptides, arylpolysulfonates, -(CH<sub>2</sub>)<sub>a</sub>OSO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>NHSO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>CO<sub>2</sub>(CH<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>OCO(CH<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T;  
W<sub>1</sub> is -CR<sub>c</sub>R<sub>d</sub>;  
a, b, d, f, h, i, and j independently vary from 1-5;  
c, e, g, and k independently vary from 1-20;  
R<sub>a</sub>, R<sub>b</sub>, R<sub>c</sub>, and R<sub>d</sub> are defined in the same manner as Y<sub>1</sub>; and  
T is a negative charge.

29. (CURRENTLY AMENDED) The method of claim 27 wherein each R<sub>4</sub>, R<sub>6</sub> and R<sub>7</sub> is H, R<sub>5</sub> is SO<sub>3</sub>T, Y<sub>1</sub> is -(CH<sub>2</sub>)<sub>3</sub>SO<sub>3</sub>T; W<sub>1</sub> is -C(CH<sub>3</sub>)<sub>2</sub>; and T is a negative charge.

30. (CURRENTLY AMENDED) The method of claim 27 wherein the diagnostic or therapeutic procedure uses light of wavelength in the region of 350 nm -1300 nm.

31. (CURRENTLY AMENDED) The method of claim 27 wherein the diagnostic or therapeutic procedure comprises monitoring a blood clearance profile by fluorescence using light of wavelength in the region of 350 nm to 1300 nm.

32. (CURRENTLY AMENDED) The method of claim 27 wherein the diagnostic or therapeutic procedure comprises monitoring a blood clearance profile by absorption using light of wavelength in the region of 350 nm to 1300 nm

33. (CURRENTLY AMENDED) The method of claim 27 wherein the diagnostic or therapeutic procedure is for physiological function monitoring.

34. (CURRENTLY AMENDED) The method of claim 33 wherein the diagnostic or therapeutic procedure is for renal function monitoring.

35. (CURRENTLY AMENDED) The method of claim 33 wherein the diagnostic or therapeutic procedure is for cardiac function monitoring.

36. (CURRENTLY AMENDED) The method of claim 33 wherein the diagnostic or therapeutic procedure is for determining organ perfusion in vivo.